NEURA
smart energy systems

NDB® -

DEEP DRILLING AS A HEAT SOURCE

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NDB® - DEEP DRILLING AS A HEAT SOURCE

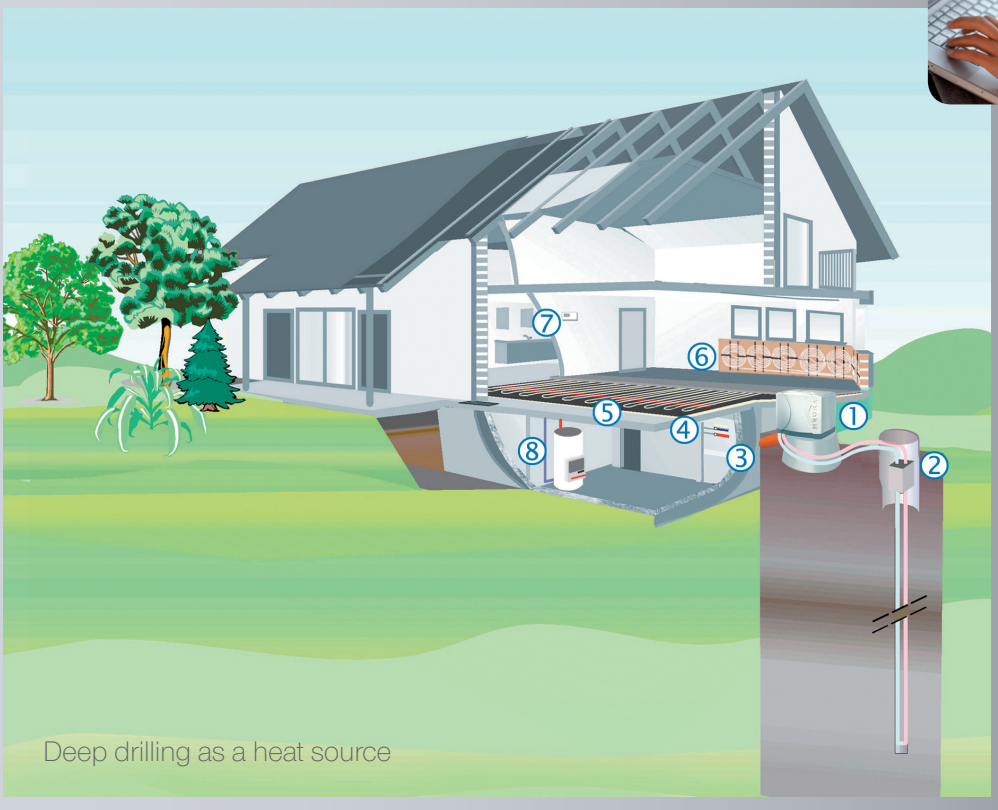
If there is insufficient ground area for laying ground collectors then soil probes can be utilised.

A probe is inserted into a bore hole and then this is backfilled. A water-antifreeze mix (brine) circulates in the probe. This extracts the heat and feeds it to the heat pump. There is no drop-off in power thanks to the constant ground temperature, even in winter.

Depending on ground characteristics, for 1 kW of heat pump heating power a probe depth of approximately 15 to 20 meters is required. It is also possible to drill several bore holes.

HIGHLIGHTS

- Highest efficiency
- Internal or external installation can be selected - no plant room required
- Plug & Heat - Ready to use, factory-tested deliveries
- Cooling possible
- 10 year premium warranty
- WEB DIALOG®-capable



Deep drilling as a heat source

1 Geothermal heat pump
2 Brine distributor
3 Domestic supply line
4 Heating circuit distributor
5 Under floor heating
6 Wall heating
7 Thermostatic controller
8 Hot water heat pump

TECHNICAL DATA

Heat pump type		S6 EuC	S8 EuC	S10 EuC	S14 EuC	S18 EuC	S20 EuC
B0/W35*)	Heating output [kW]	5,80	8,60	9,92	14,65	17,17	19,48
	Power number [COP]	4,2	4,3	4,3	4,3	4,4	4,4
B0/W55*)	Heating output [kW]	5,32	7,86	8,85	12,98	15,52	17,97
	Power number [COP]	2,4	2,4	2,4	2,4	2,6	2,6

*) ENVIRONMENTAL STANDARD EN 14511

S6 EuC - S14 EuC (possible for 400 V and 230 V) • S18 EuC (400 V and 230 V [to max. 50°C]) • S20 EuC (400 V)